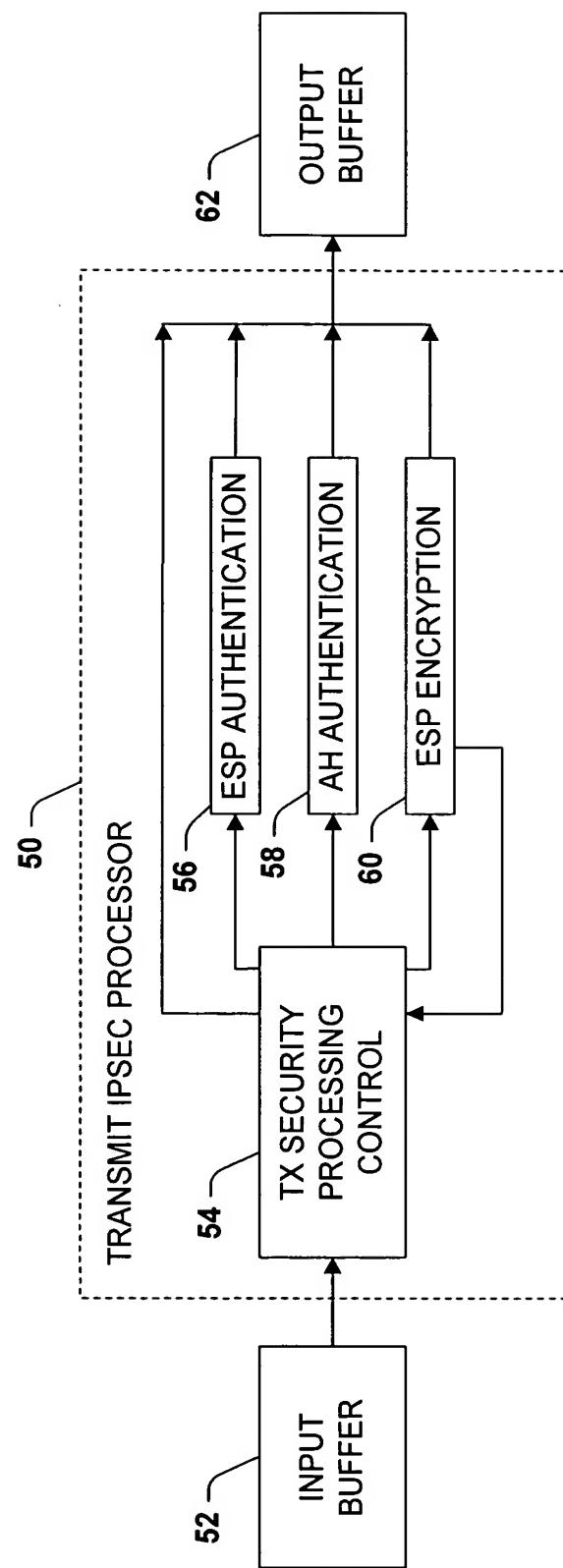


Fig. 1A



**Fig. 1B**

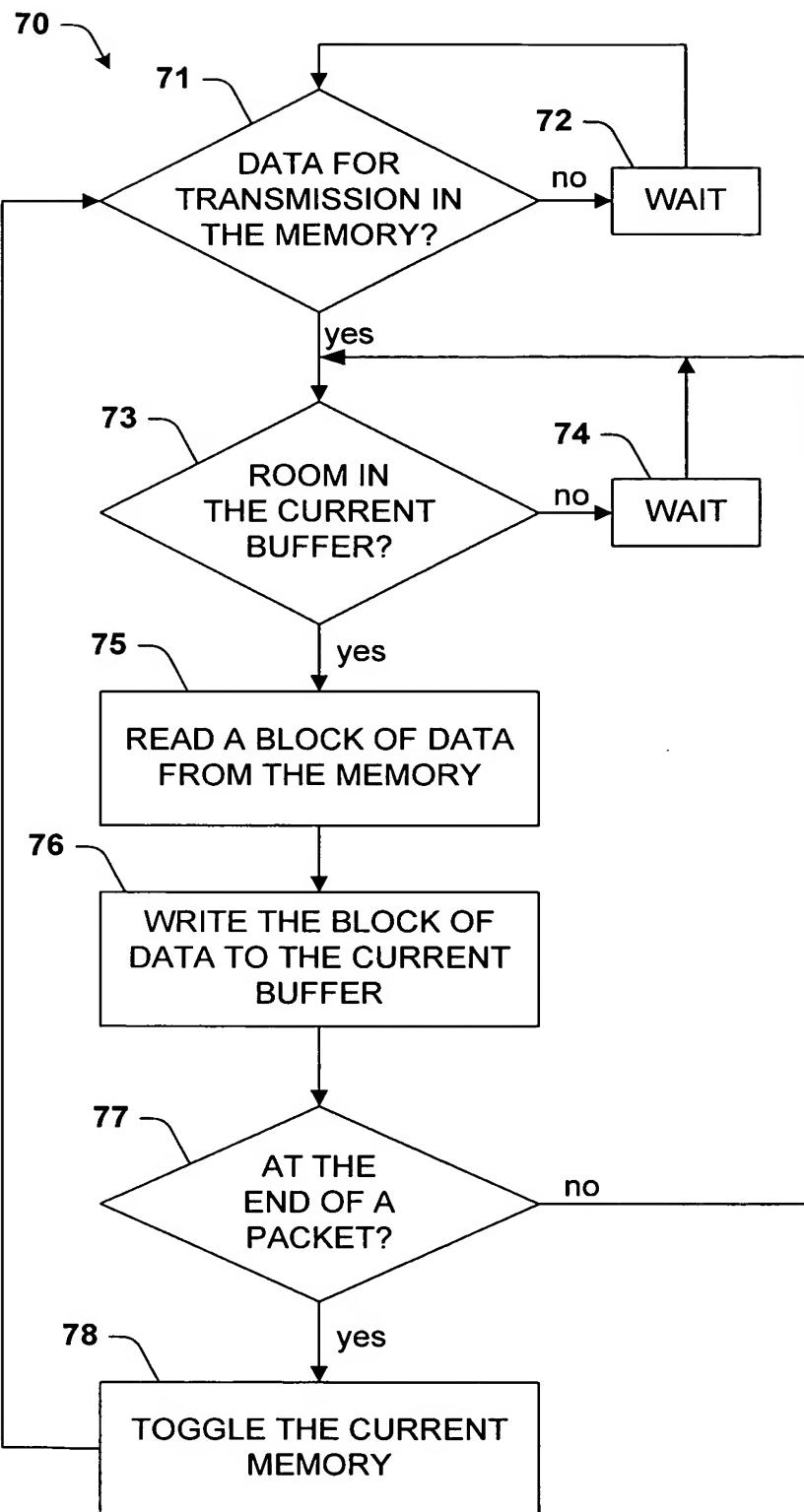
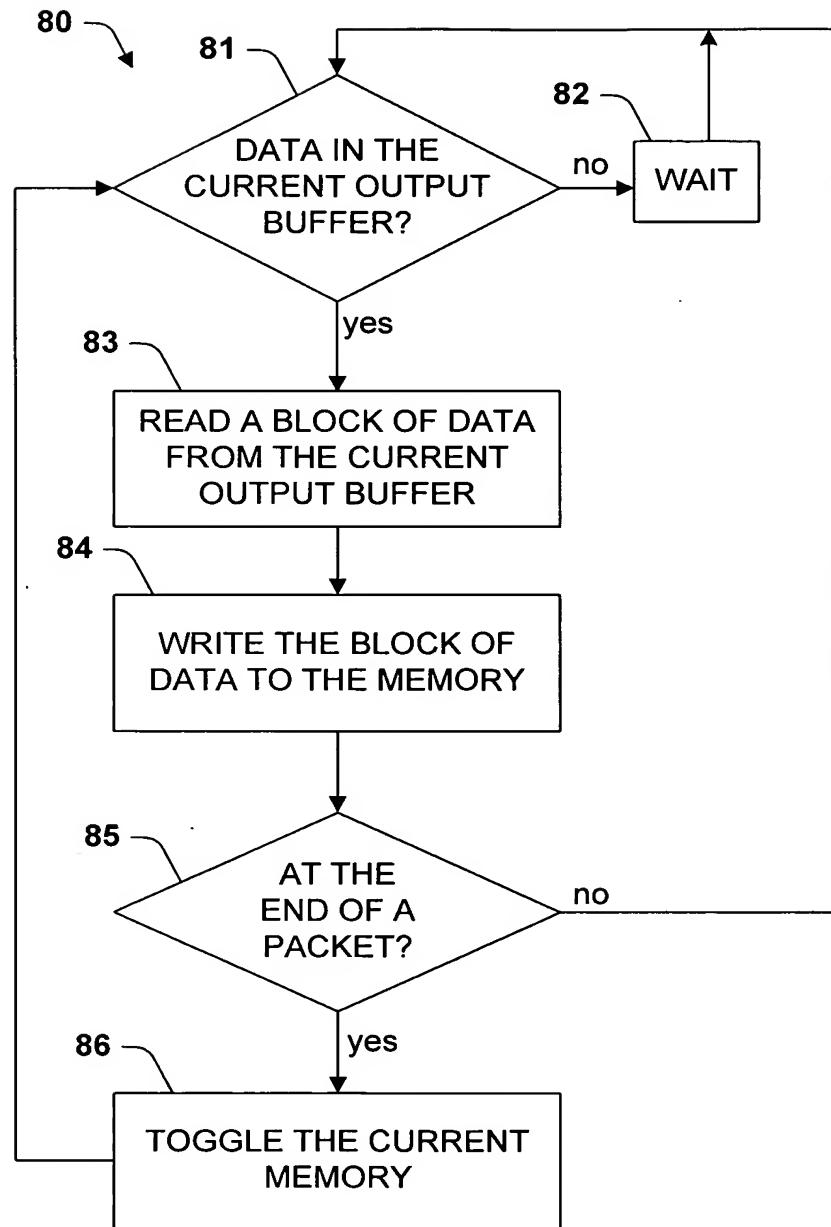


Fig. 1C



**Fig. 1D**

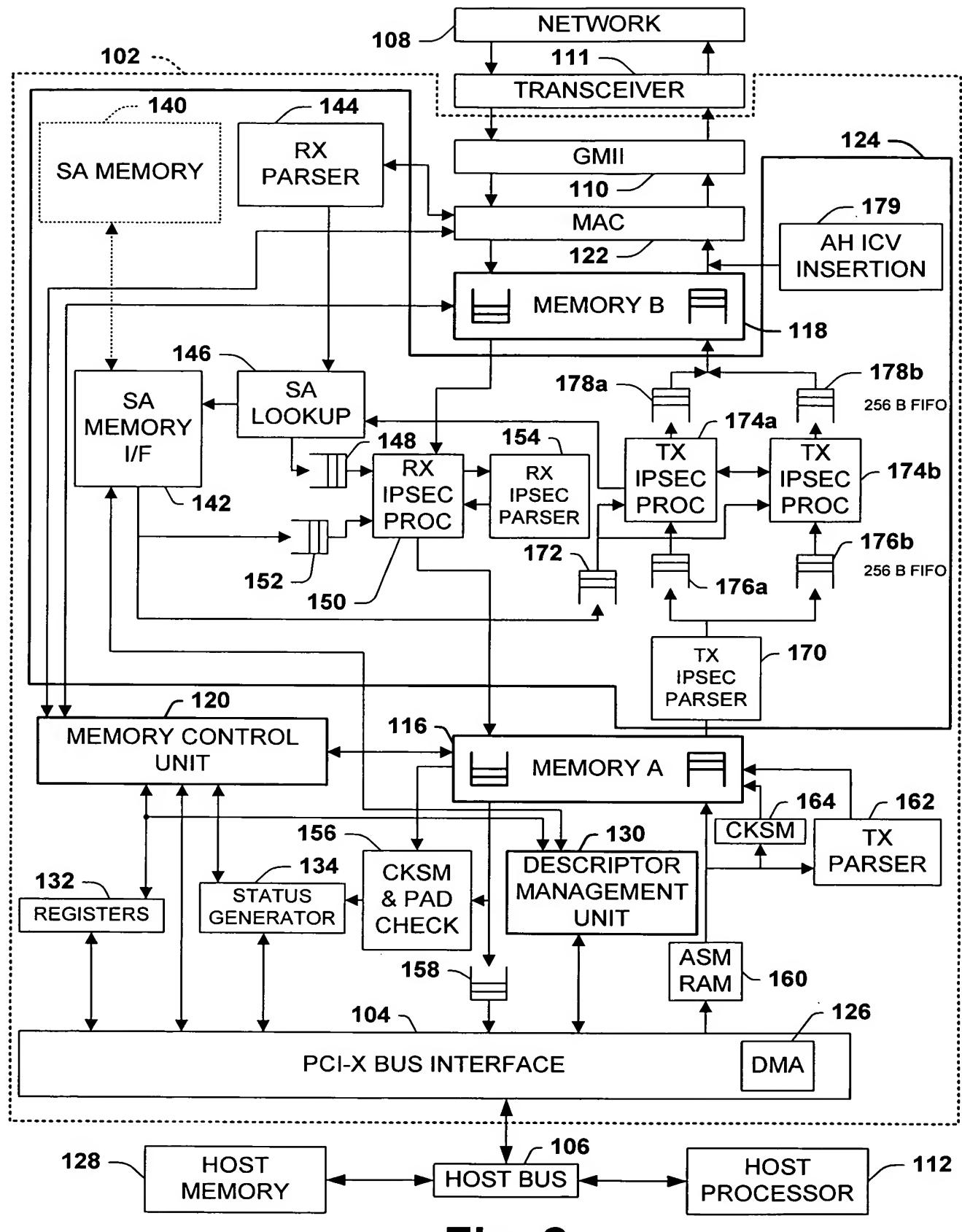
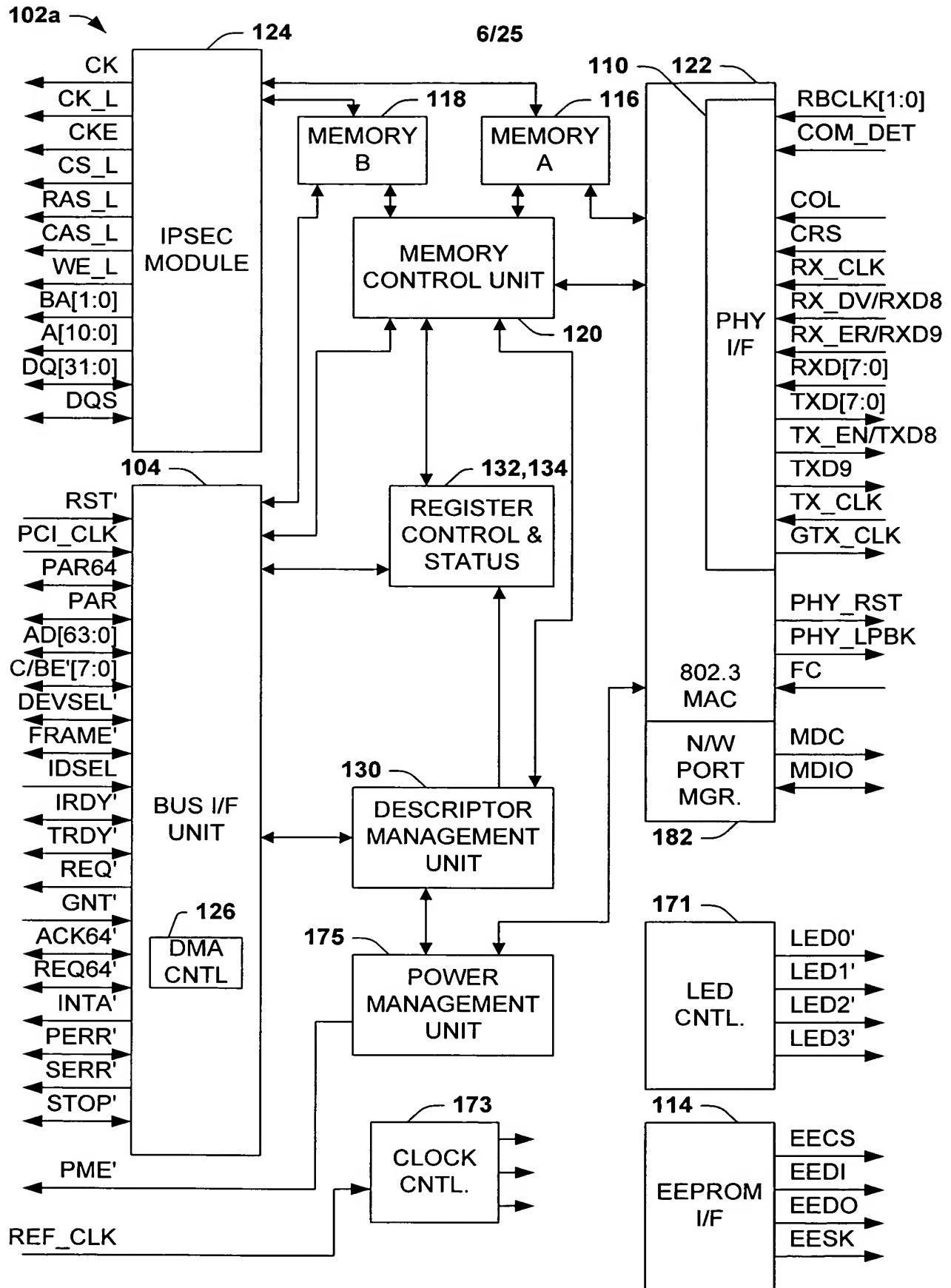


Fig. 2

180



**Fig. 3**

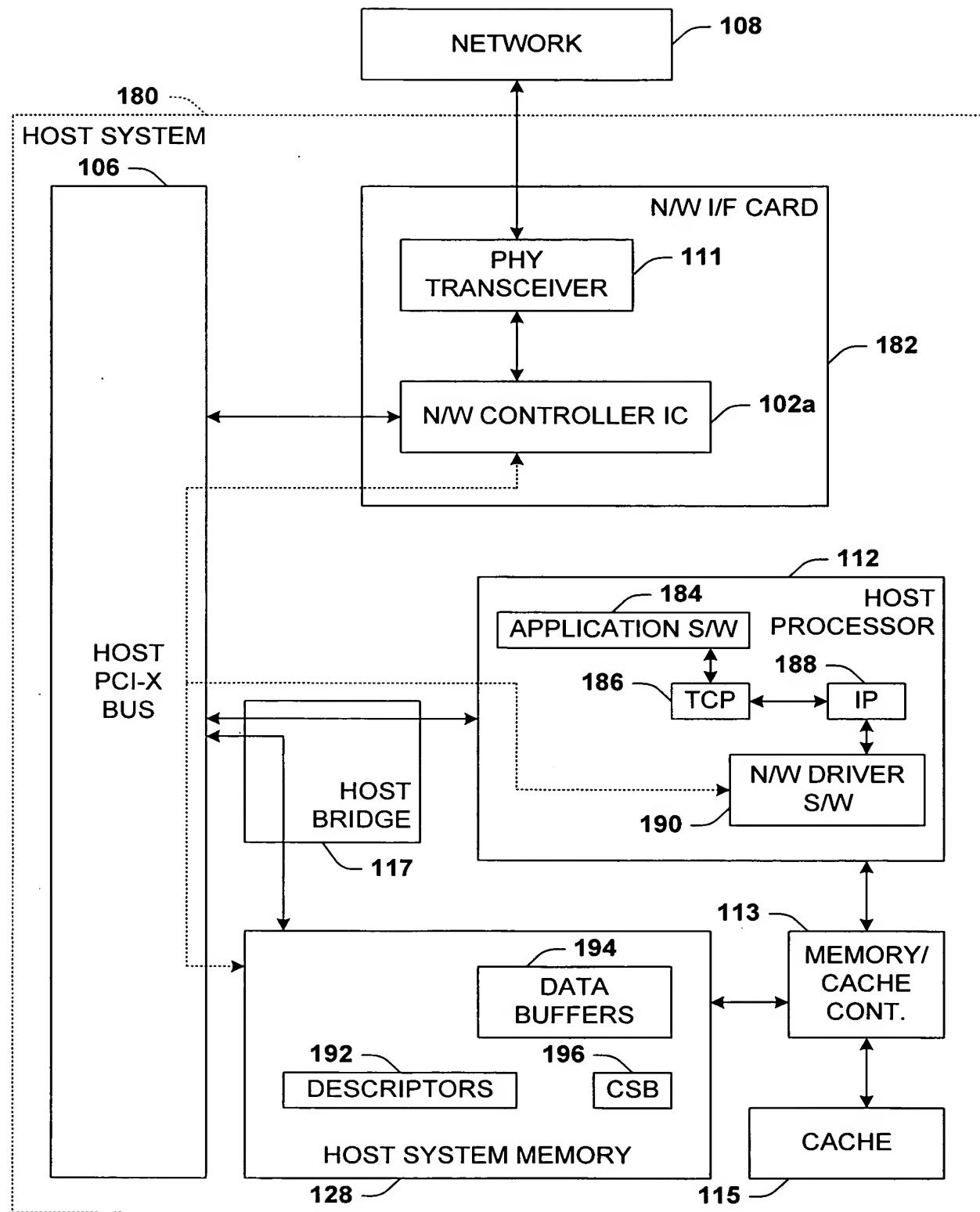


Fig. 4

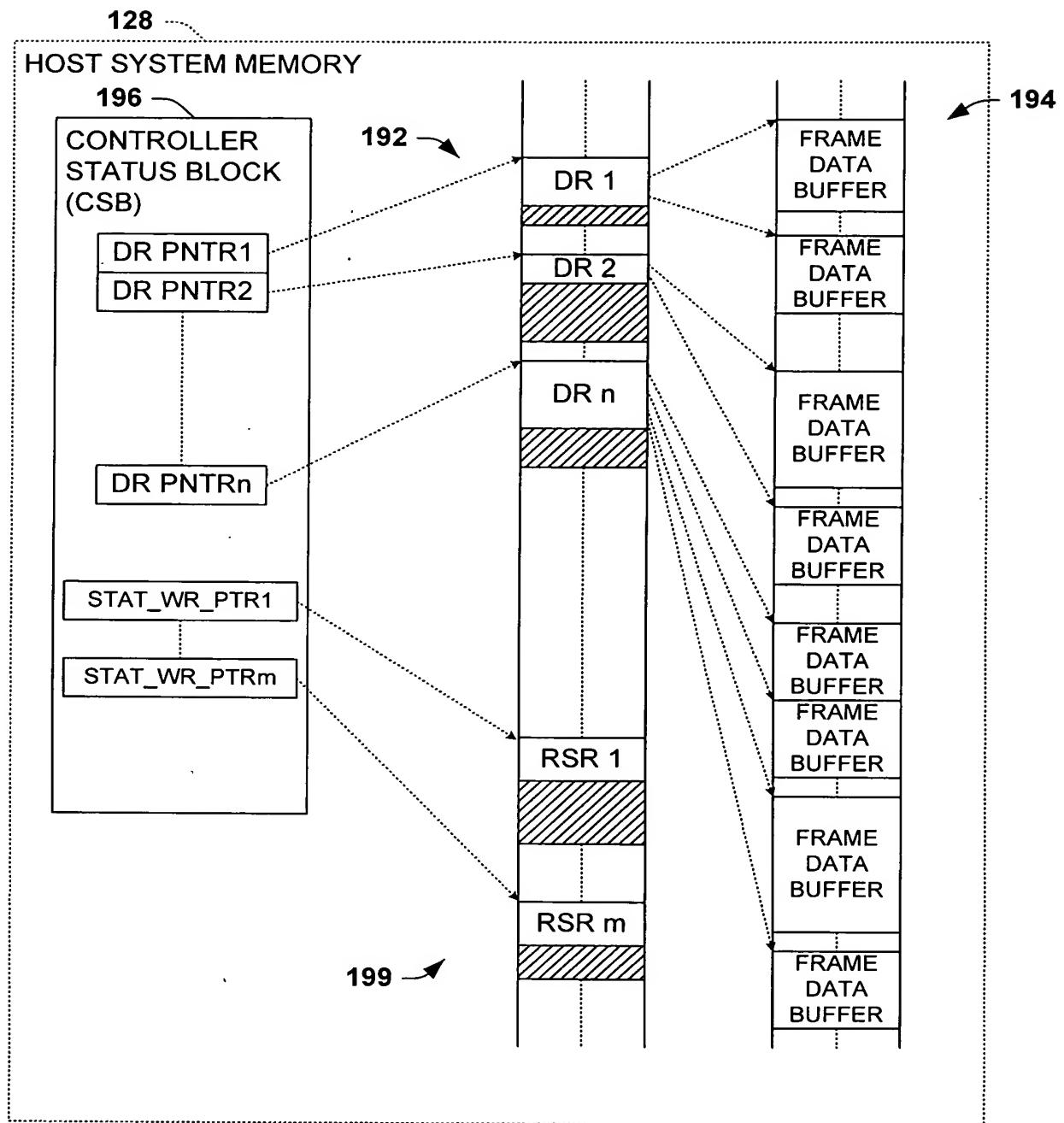
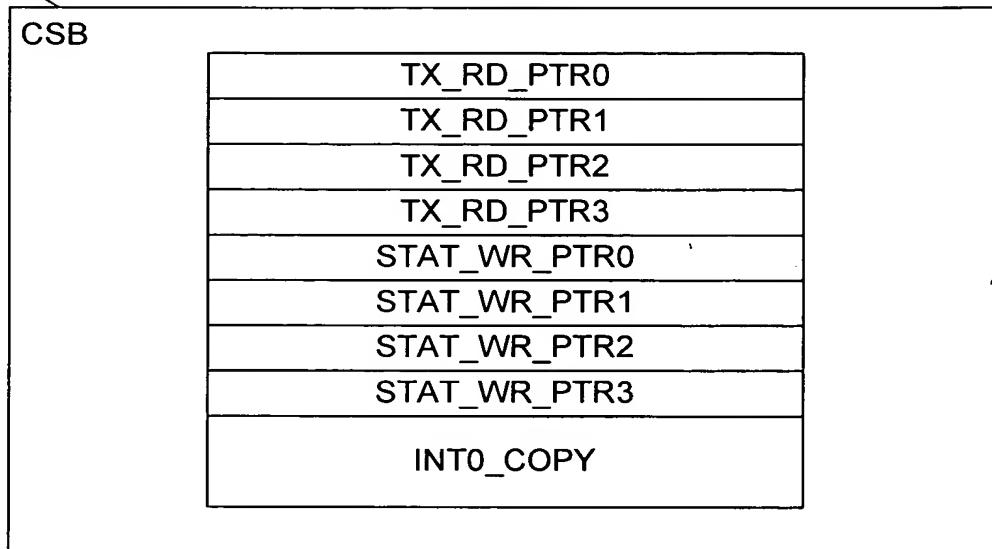
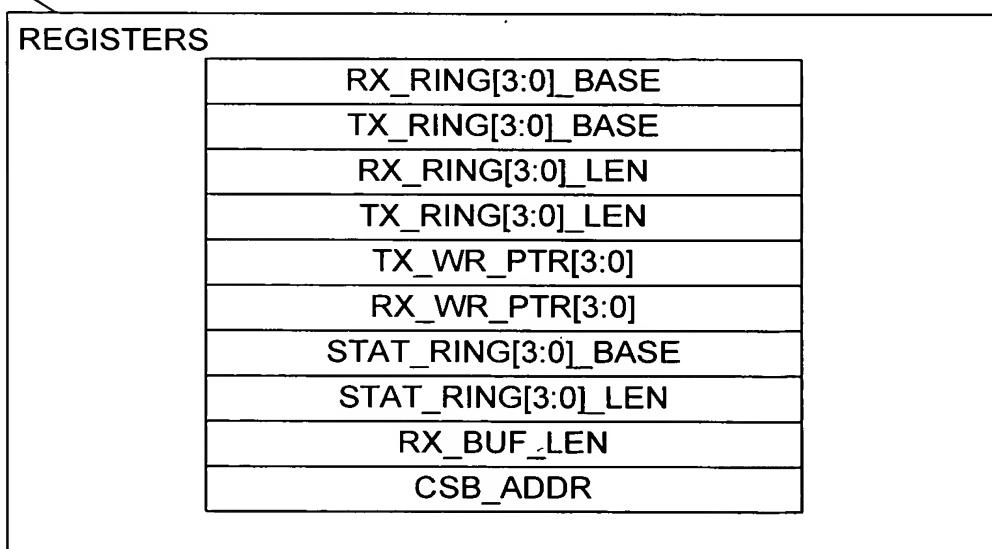


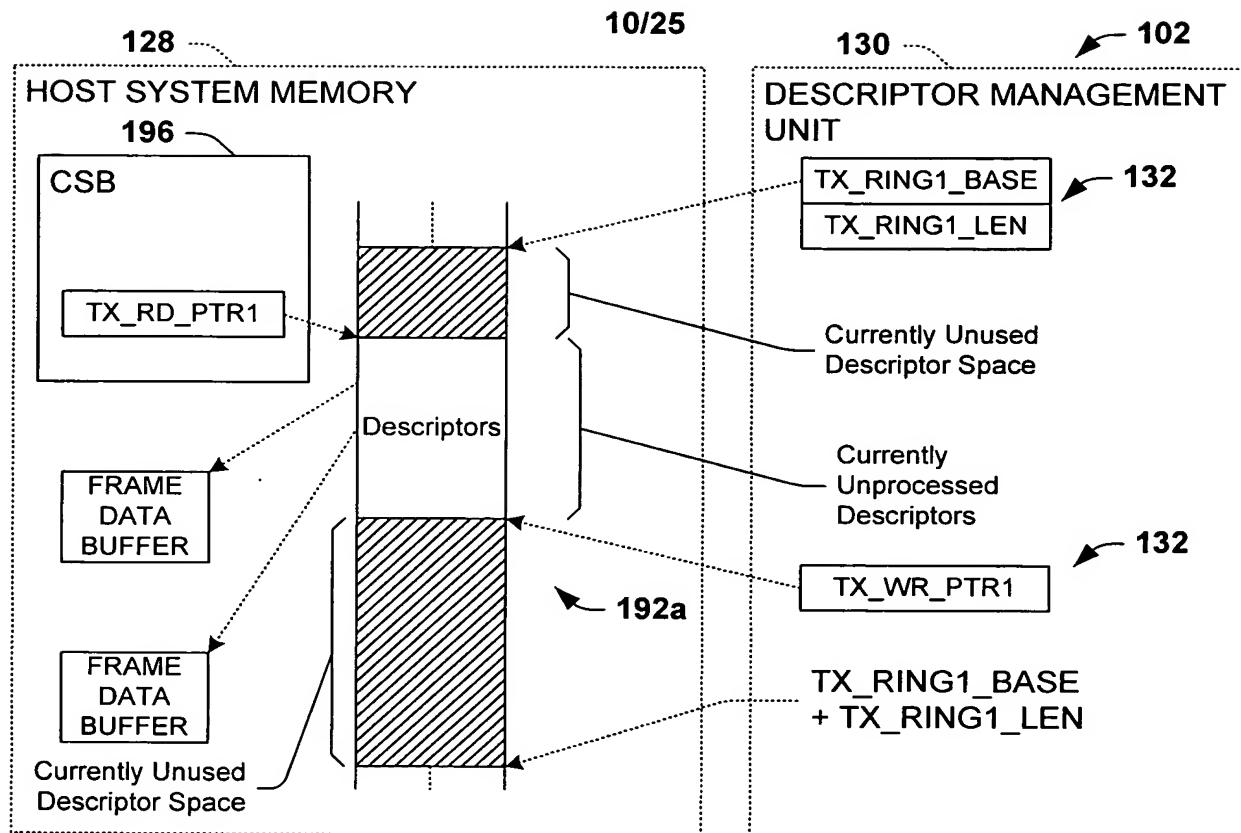
Fig. 5A

196

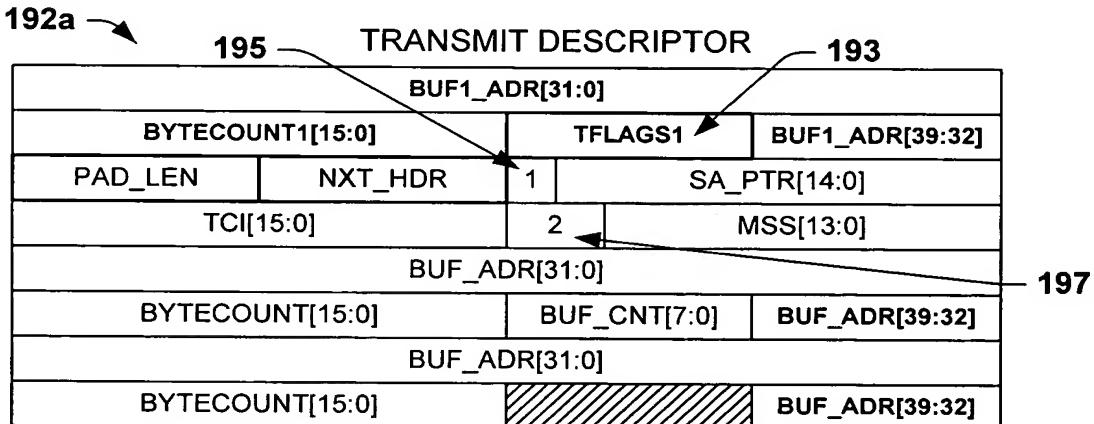
**Fig. 5B**

132

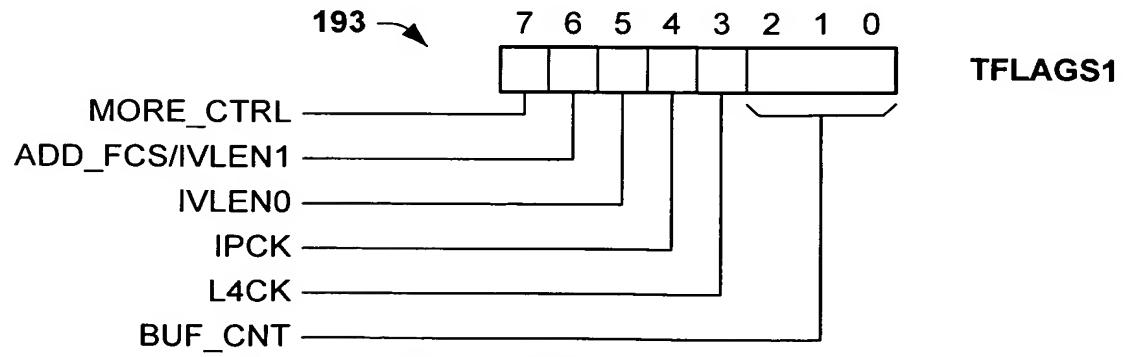
**Fig. 5C**



**Fig. 5D**



**Fig. 5E**



**Fig. 5F**

192b

## RECEIVE DESCRIPTOR

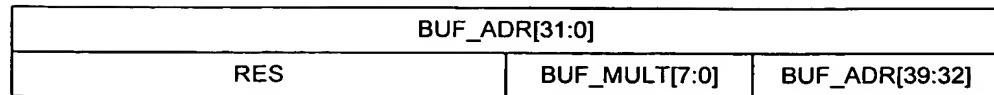


Fig. 5G

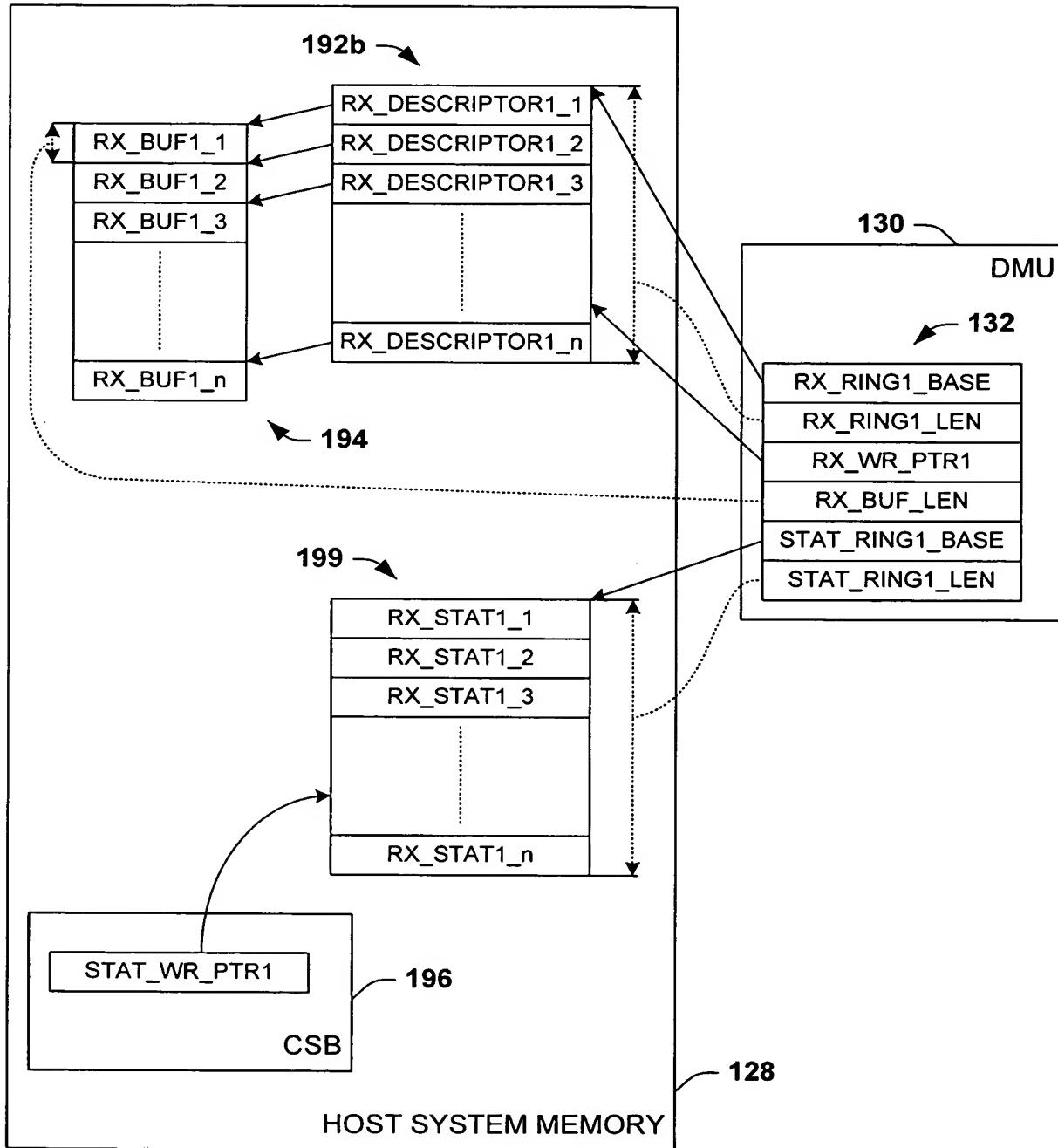
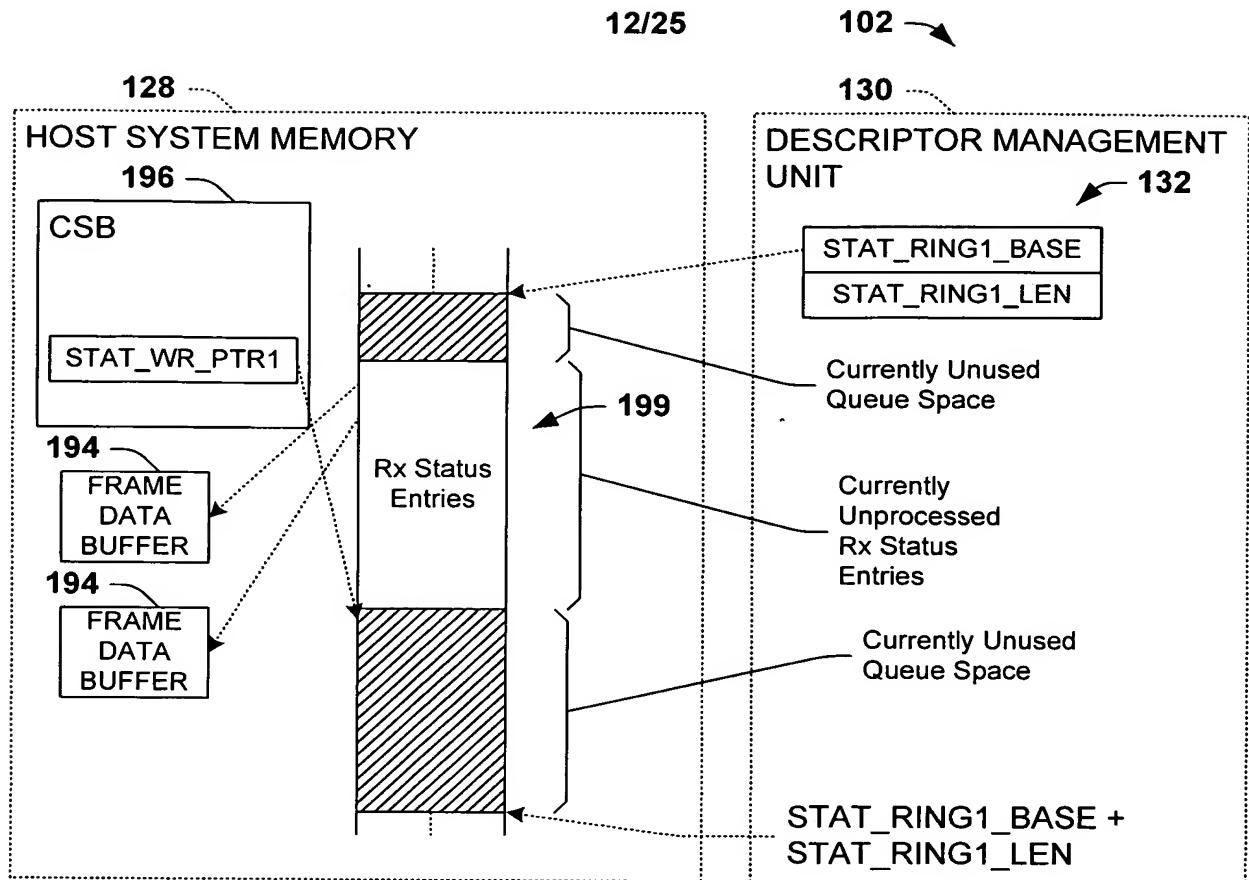
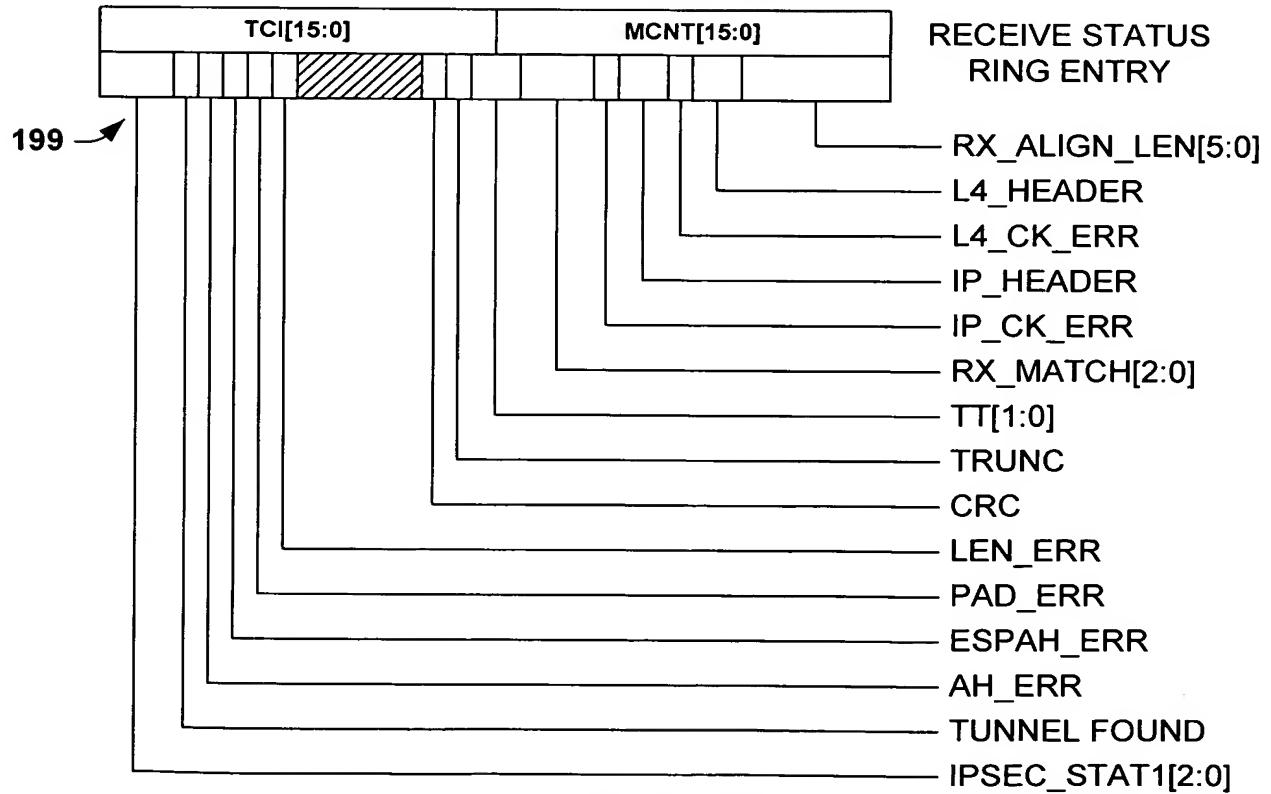


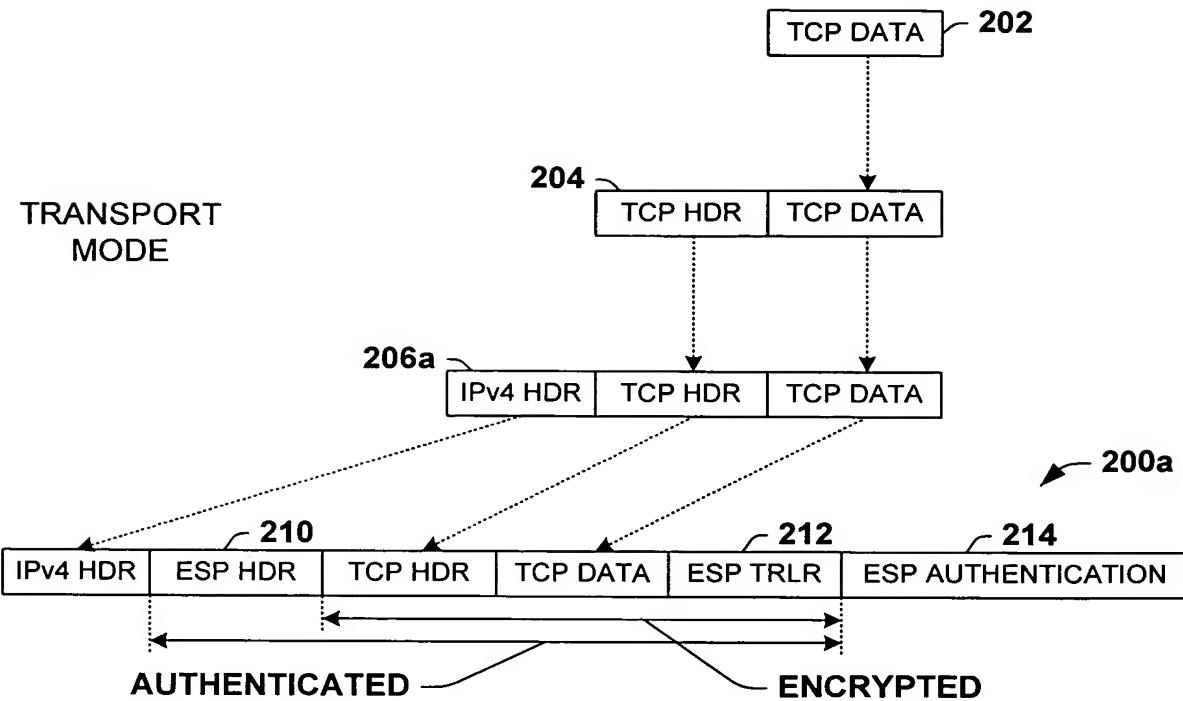
Fig. 5H



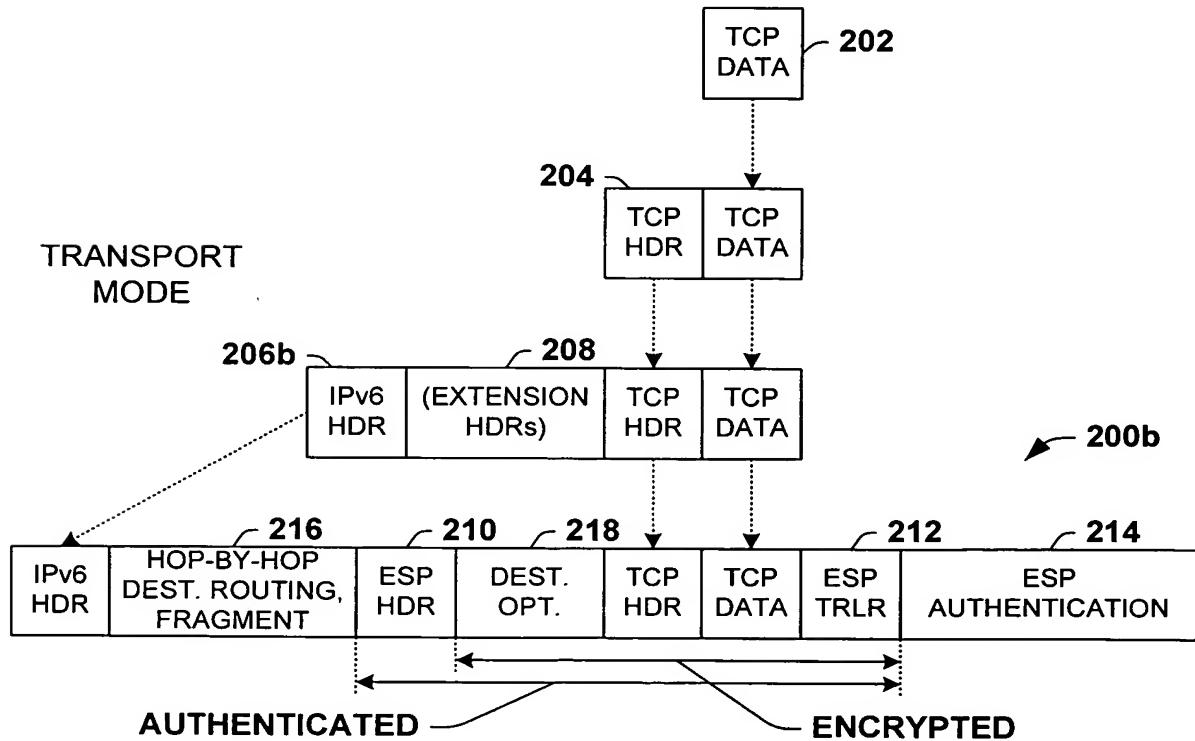
**Fig. 5I**



**Fig. 5J**



**Fig. 6A**



**Fig. 6B**

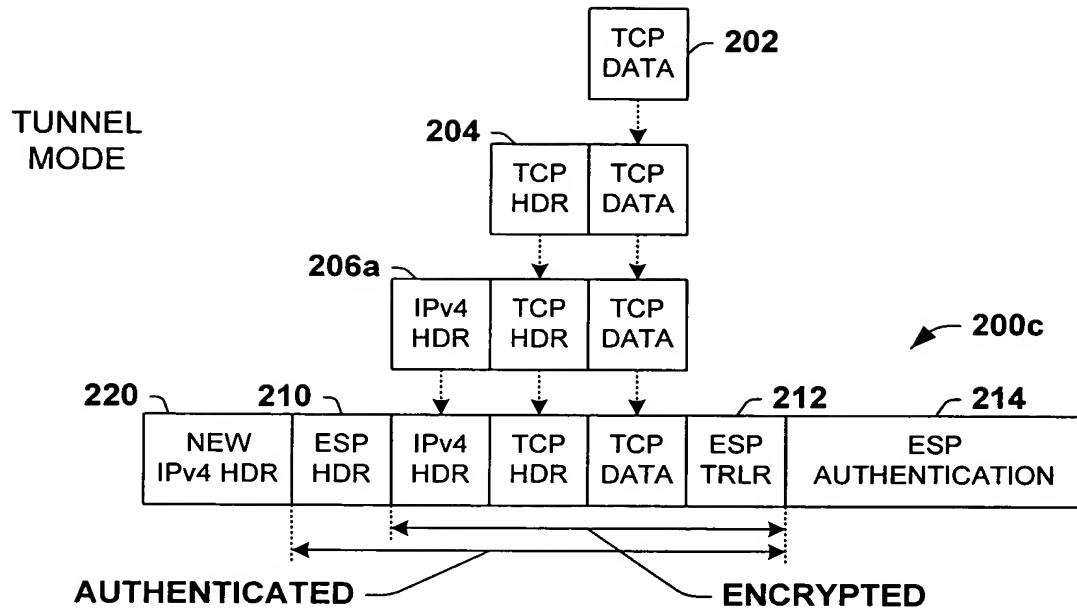


Fig. 6C

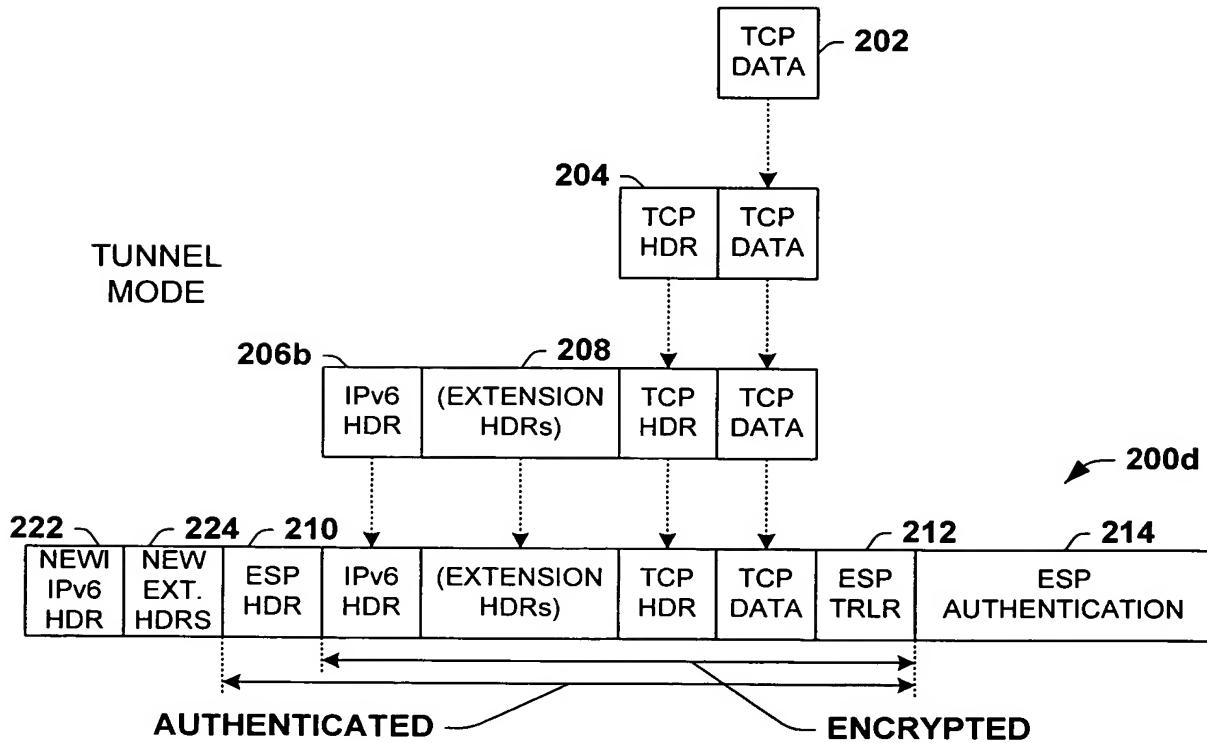
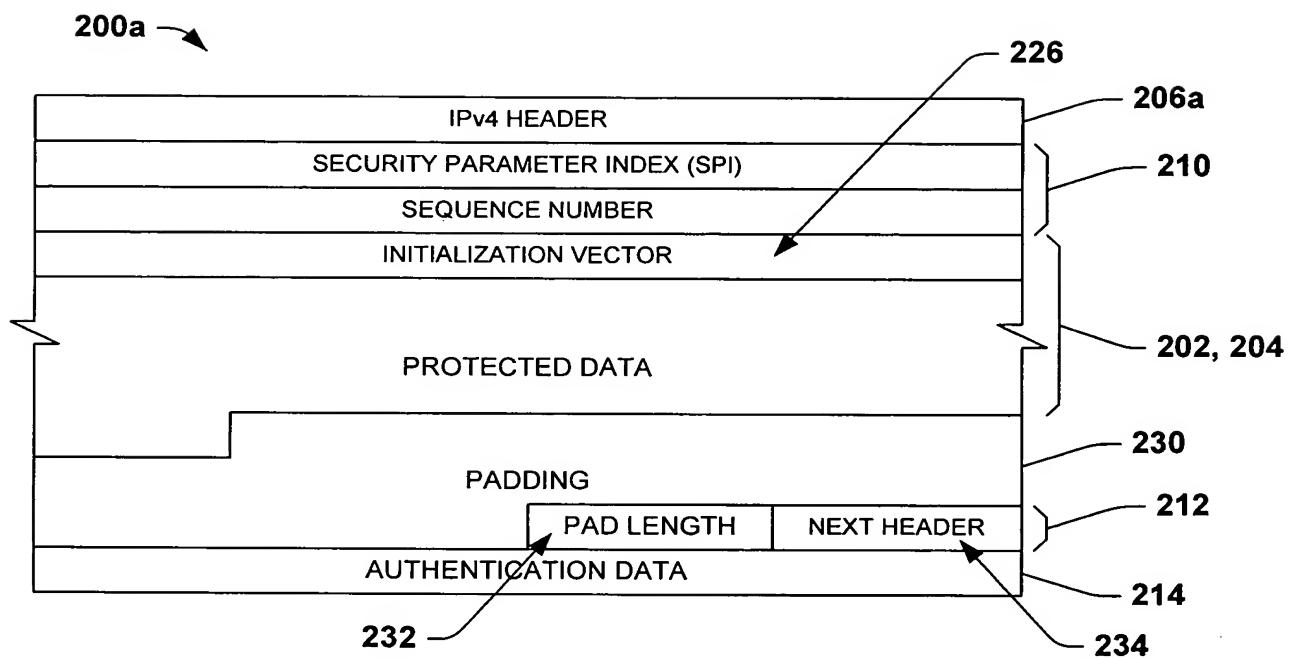


Fig. 6D



**Fig. 6E**

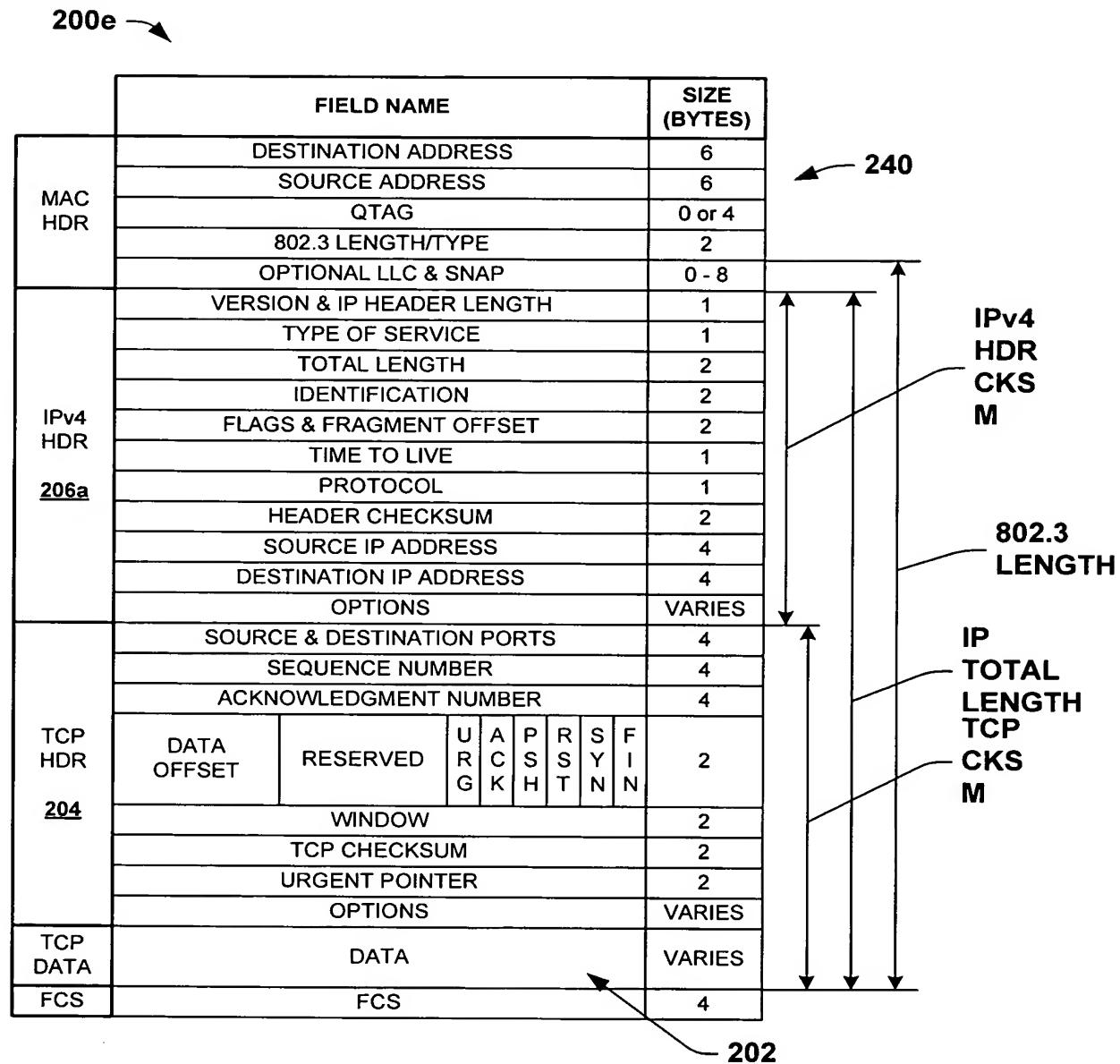


Fig. 7A

200f ↗

FIELD NAME		SIZE (BYTES)
MAC HDR	DESTINATION ADDRESS	6
	SOURCE ADDRESS	6
	QTAG	0 - 4
	LENGTH/TYPE	2
	OPTIONAL LLC & SNAP	0 - 8
IPv6 HDR <u>206b</u>	VERSION, TRAFFIC CLASS, & FLOW LABEL	4
	PAYLOAD LENGTH	2
	NEXT HEADER	1
	HOP LIMIT	1
	SOURCE IP ADDRESS	16
	DESTINATION IP ADDRESS	16
	EXTENSION HEADERS	VARIES
TCP HDR <u>204</u>	SOURCE & DESTINATION PORTS	4
	SEQUENCE NUMBER	4
	ACKNOWLEDGMENT NUMBER	4
	DATA OFFSET	2
	RESERVED	2
	U R G A C K P H S T R S Y N F	2
	WINDOW	2
	TCP CHECKSUM	2
	URGENT POINTER	2
	OPTIONS	VARIES
TCP DATA	DATA	VARIES
FCS	FCS	4

Fig. 7B

250 ↘

FIELD NAME	Created by Host	Modified by ESP	Encrypted	Covered by ESP Authentication	Added by Controller
Preamble					x
Start of Frame Delimiter					x
MAC Header	x				
IP Header	x				
ESP Header	x			x	
Payload Data	x	x	x	x	
Padding	x	x	x	x	
Pad Length	x	x	x	x	
Next Header	x	x	x	x	
Authentication Data	x	x			
Frame Check Sequence					x

Fig. 8A

252 ↘

FIELD NAME	Created by Host	Modified by AH Module	Covered by AH Authentication	Added by Controller
Preamble				x
Start of Frame Delimiter				x
MAC Header	x			
IP Header	x		x	
AH Header	x	x	x	
Other Headers	x		x	
Payload Data	x		x	
Frame Check Sequence				x

Fig. 8B

254 ↗

<b>PHCKSM FOR IPv4</b>	
32-BIT IP SOURCE ADDRESS	
32-BIT IP DESTINATION ADDRESS	
ZERO	PROTOCOL
TCP TOTAL LENGTH	

**Fig. 8C**

256 ↗

<b>PHCKSM FOR IPv6</b>	
128-BIT IP SOURCE ADDRESS	
128-BIT IP DESTINATION ADDRESS	
16-BIT TCP TOTAL LENGTH	
ZERO	PROTOCOL

**Fig. 8D**

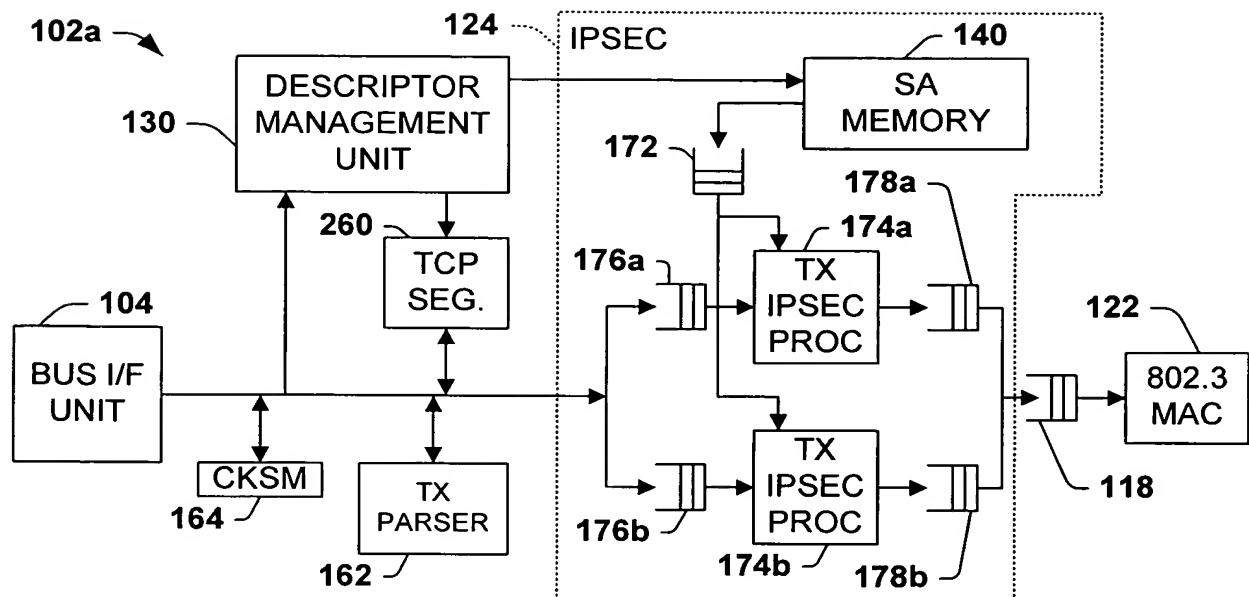


Fig. 9

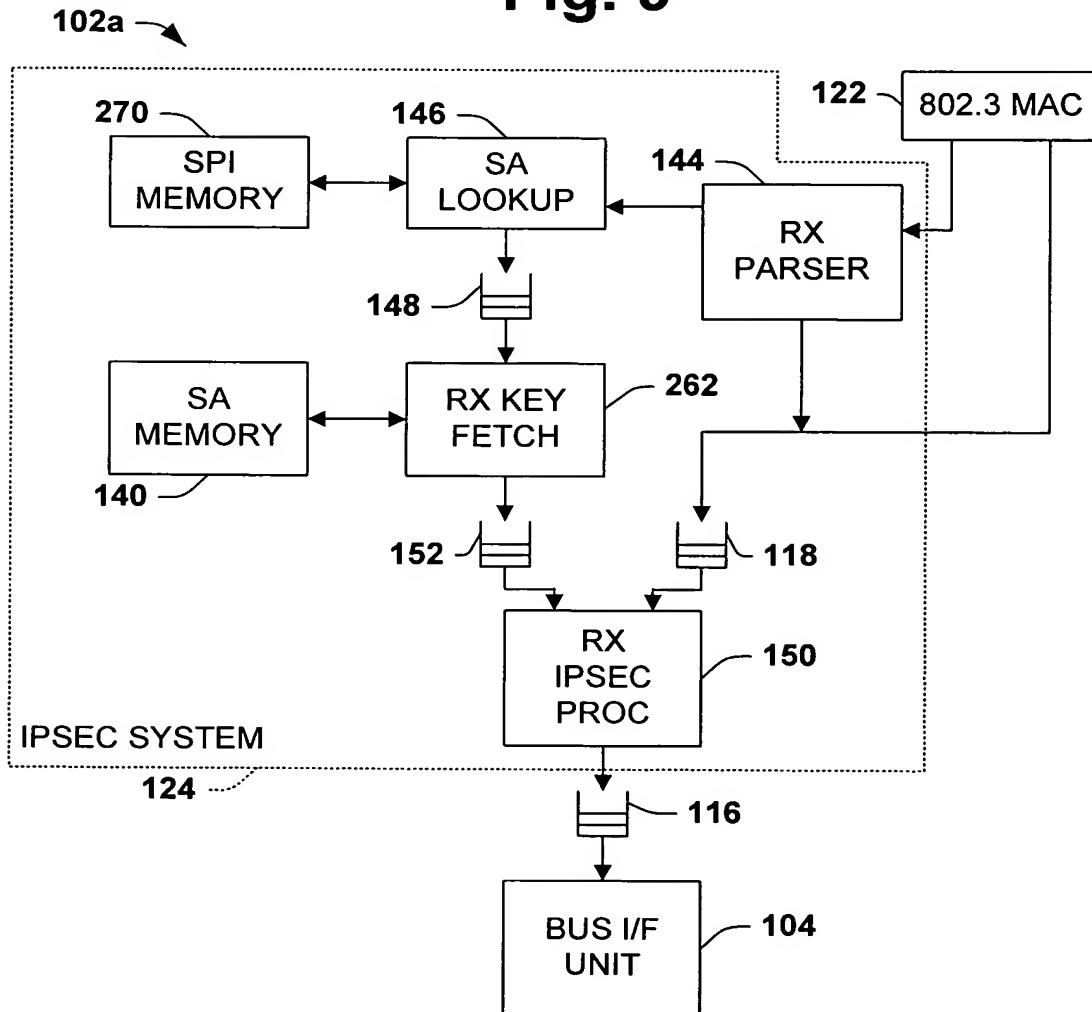


Fig. 10

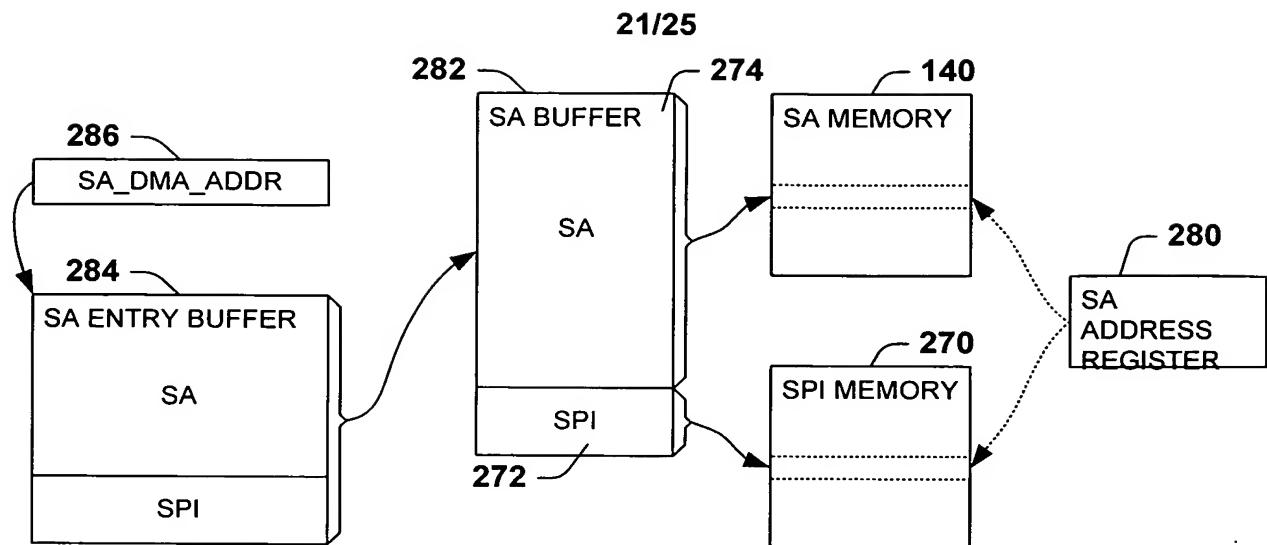


Fig. 11A

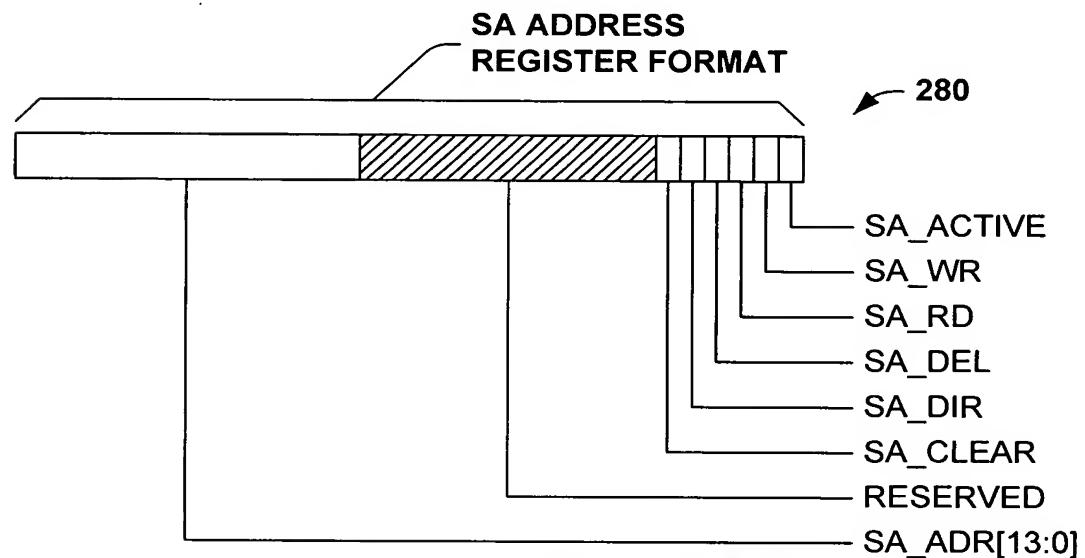


Fig. 11B

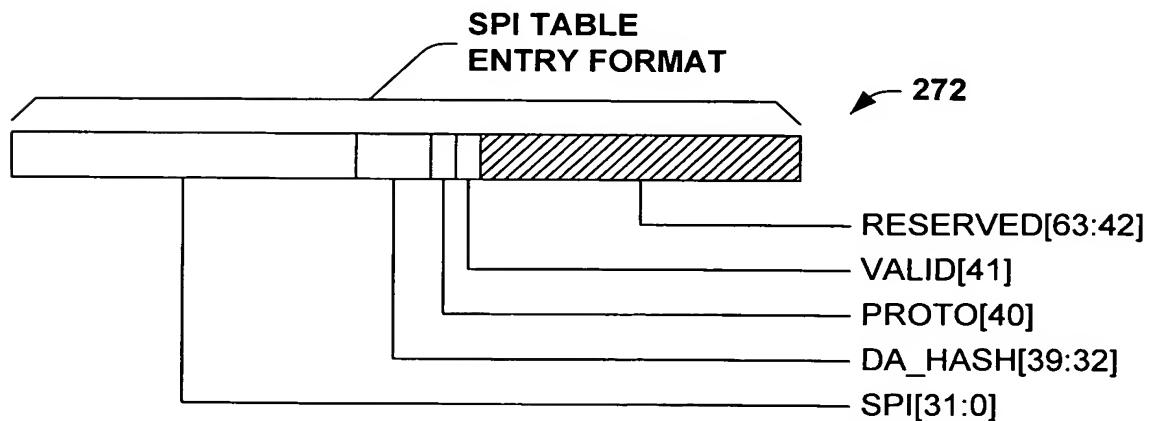


Fig. 11C

140 ↗

## SA MEMORY ENTRY

274 ↗

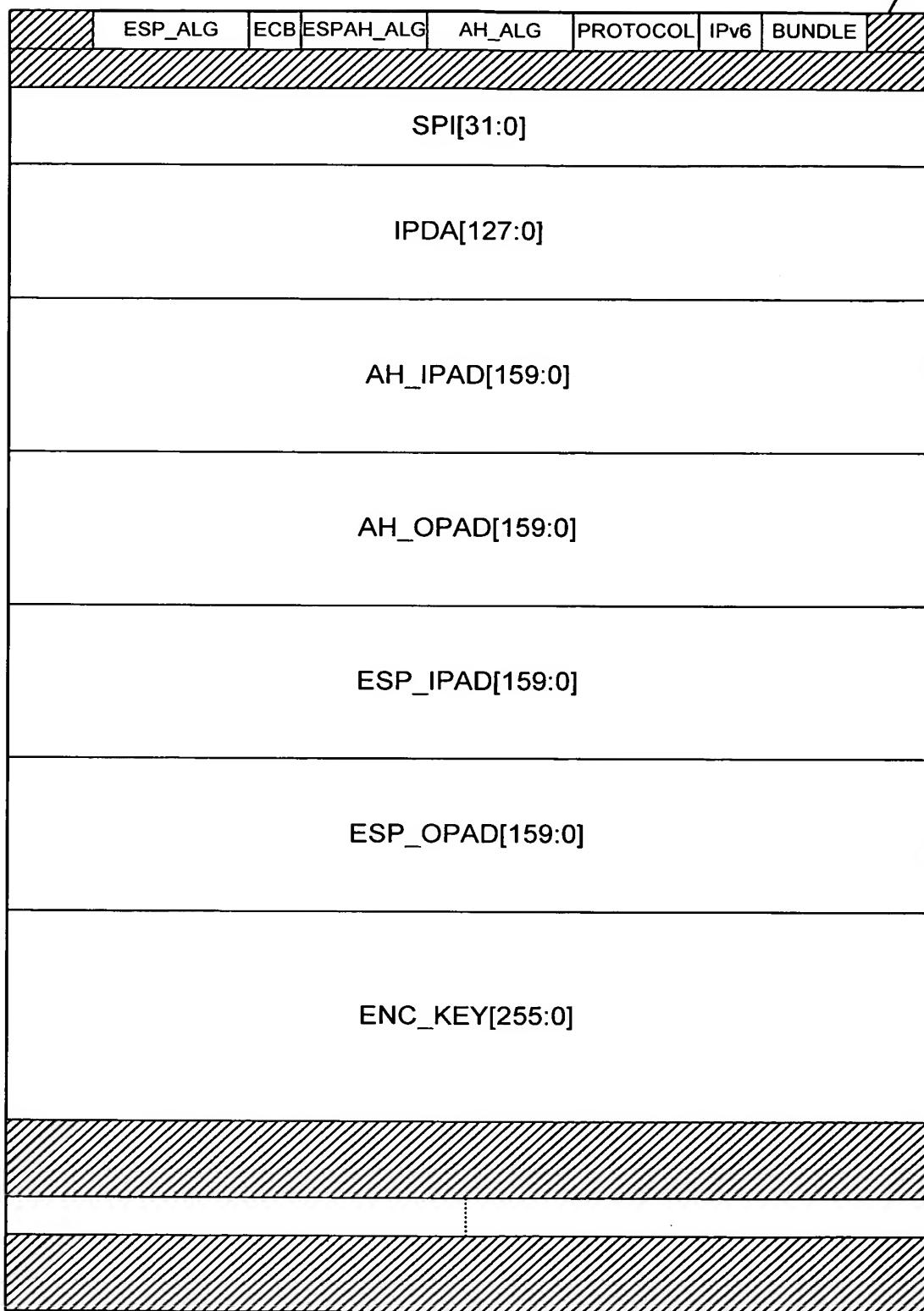


Fig. 11D

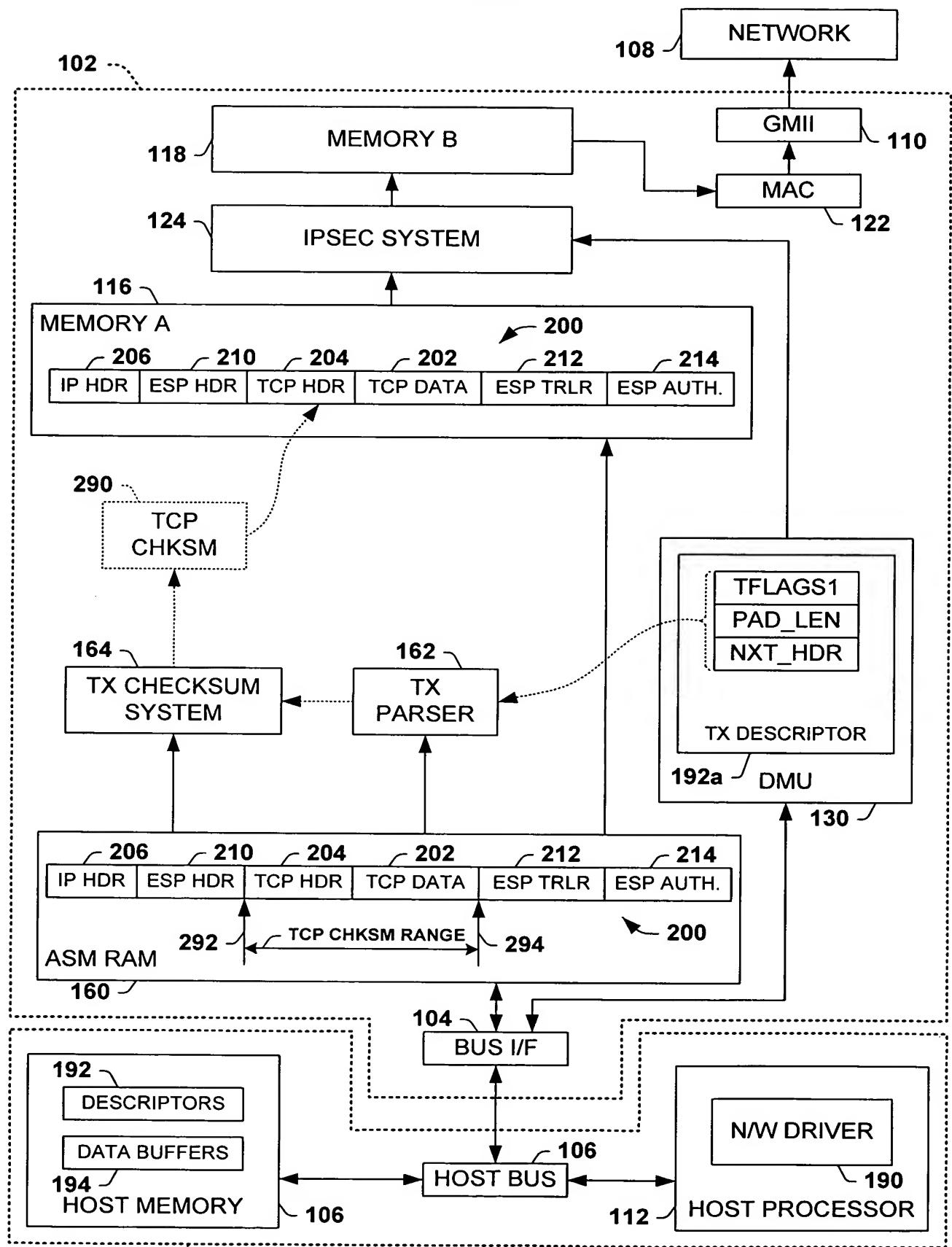
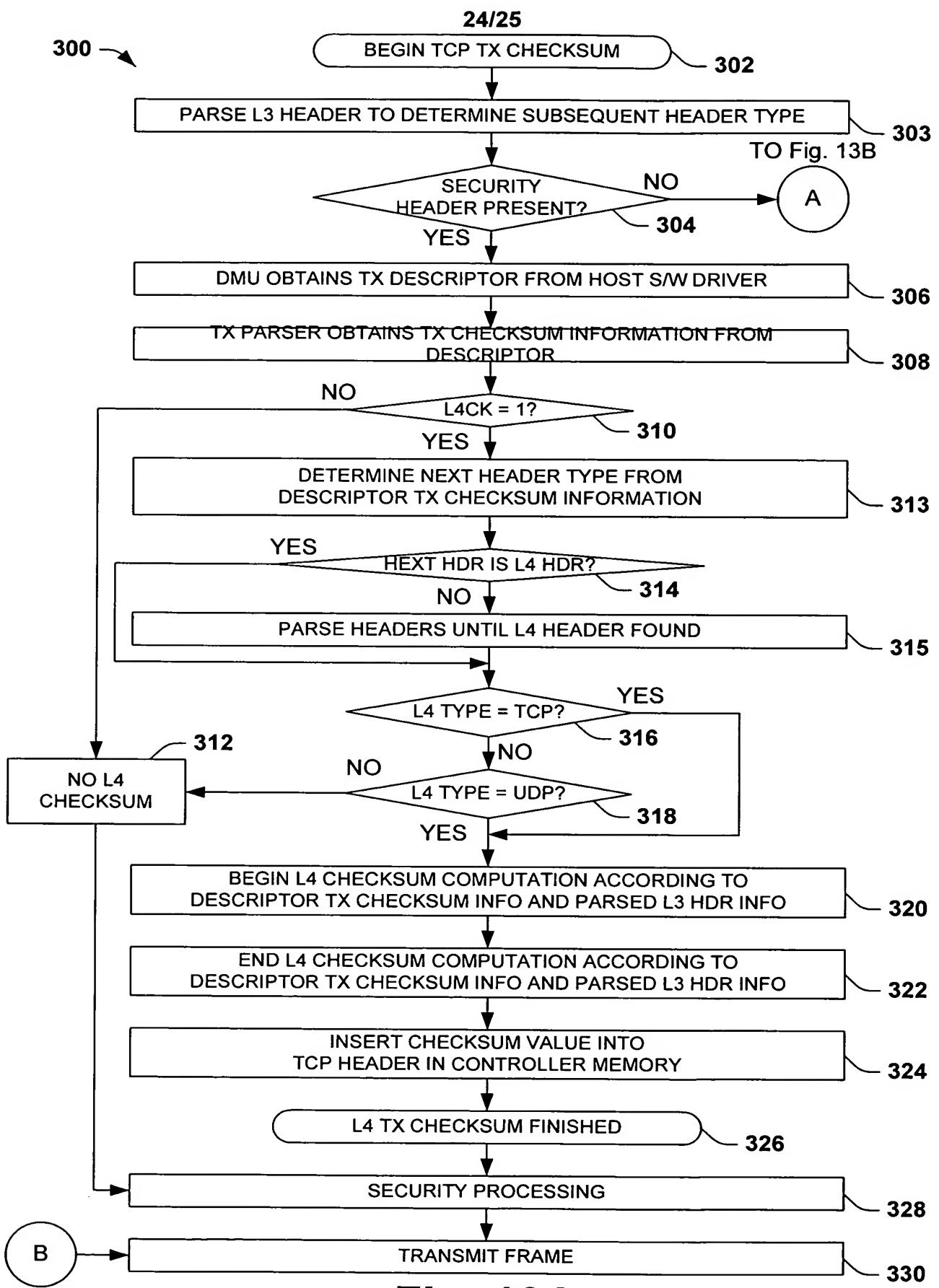


Fig. 12



FROM Fig. 13B

**Fig. 13A**

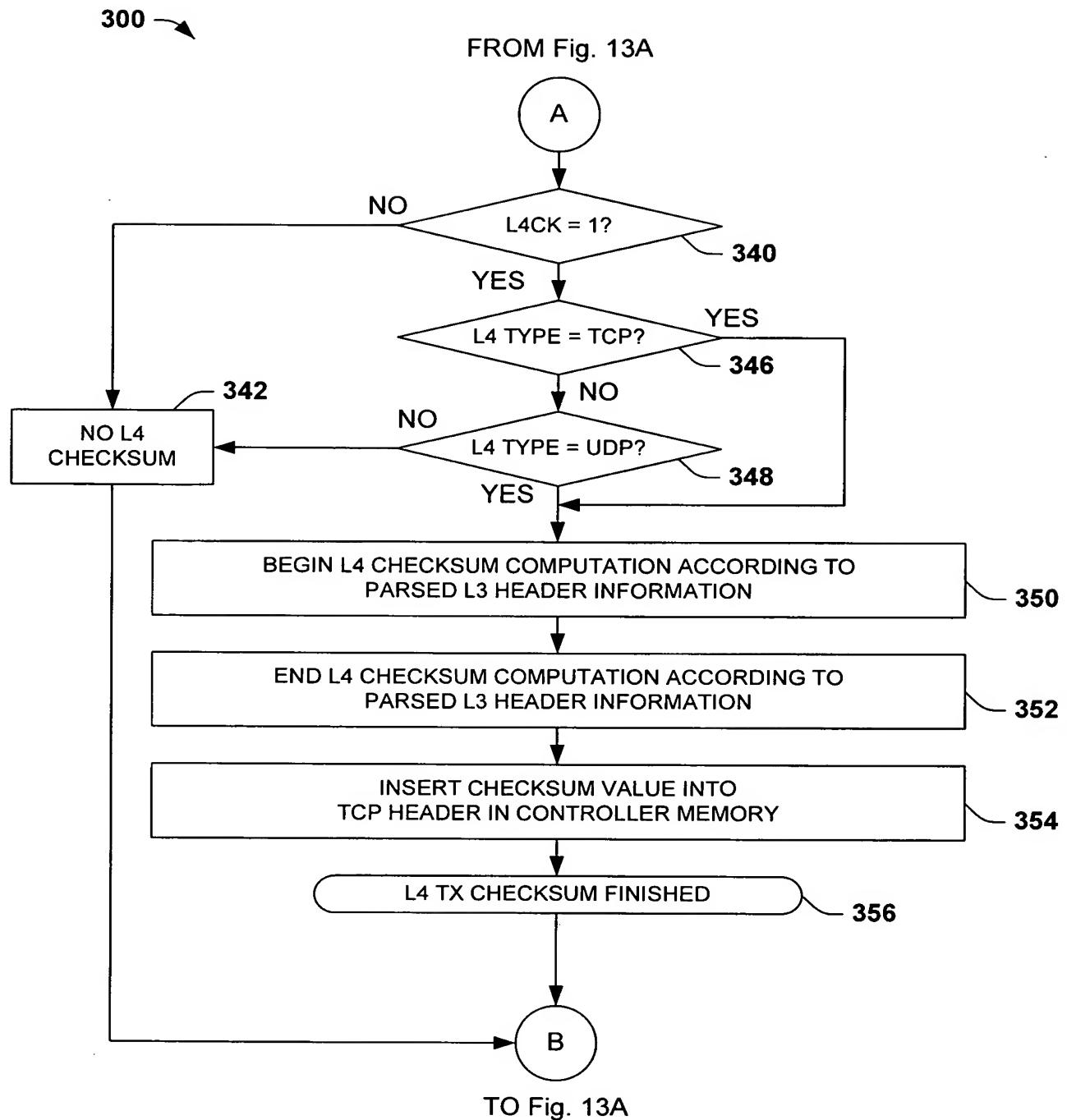


Fig. 13B